

IF IN DOUBT - ASK

Notes

This drawing is to be read in conjunction with the construction (Design and Management) regulations 2015.
To be read in conjunction with Lees Roxburgh drawing series 6697.

Drainage:

Scheme based on JPB Flood Risk Assessment ref: **MB616-65-AC/JHB RevA/** 10th June 2013 and supplemented by Weetwood Services Aberderyn modelling study ref: 2585 19th June 2014.

Surface Water

Design based on the following Criteria:

Climate Change - 30%
Winter Cv - 0.84
Summer Cv - 0.75
Runoff - 281.5 l/s

Residential Area

Surface water to north of to drain to Aberderyn via attenuation basin. Attenuation volumes up to and including 1:100yr+30% Climate Change event to be contained in online piped network and basin. Flows to be restricted by hydrobrake.

Commercial Area

To drain to Aberderyn via online piped network. Attenuation volumes up to and including 1:100yr+30% Climate Change event contained in online piped network prior to outfall to Aberderyn. Flows controlled by hydrobrake.

Foul

Residential Area

90 plots to drain by gravity to northern existing foul network, remainder of residential to be pumped to connection manhole F30 at head of gravity system. Emergency storage to be provided within wet well and offline storage (subject to pump station design) Pump Station location TBC. Section of existing F44-F45 to be upsized to 450mmØ as noted in accordance with Welsh Water Hydraulic assessment ref 085 - N119 Hafod Road and Bangor Road 00675 Report 28th November 2017.

Commercial Area

To drain to existing network within Bangor Road.

Notes

All drainage to be designed to Sewers for Adoption 7th Edition.

All existing proposed drainage connection points to be surveyed.

Culvert crossing for Road 1 subject to detailed design.

Gas main to have min 36m easement.

This design is subject to ongoing detailed design development and comment by all adopting authorities. Additional information and comments to be reviewed and incorporated into design as required.

KEY

- EXISTING FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED FOUL WATER SEWER
- FOUL RISING MAIN (MINIMUM 1.2m COVER)
- PROPOSED EASEMENT
- ABERDERFYN
- WEETWOOD FLOOD MAPPING 0.1% FLUVIAL FLOOD OUTLINE PROPOSED SCENARIO
- PROPOSED FINISHED FLOOR LEVEL FFL 103.50
- ATTENUATION BASIN 1:3 SIDE SLOPES
- EXCEEDANCE ROUTE EVENTS EXCEEDING 1:100YR +30%CC
- GAS MAIN
- GAS MAIN EASEMENT
- NOTES
- ALLOW FOR GULLIES AT 20M INTERVALS. DOUBLE GULLIES TO BE LOCATED AT ROAD LOW POINTS. DRAGOUTS AS REQUIRED.

Rev	Revision	By	Date
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Hafod Road
Johnstown

Drainage Strategy

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6697	01-05	-

Scale 1:1000@A1	Date November 2023	
Drawn By	Designed By	Checked By

CB	CB	
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